## **ADMIN RECORD**

RF/ER-96-0012 UN Rev 0 Final Phase I RFI/RI Report Woman Creek Priority Drainage Operable Unit 5

## 11 0 REFERENCES

- Agency for Toxic Substances and Disease Registry (ATSDR), 1993, Draft Toxicological Profile for Polycyclic Aromatic Hydrocarbons (PAHs) Prepared by Clement International Corporation for U S Department of Health and Human Services Atlanta, Georgia, October
- Ambrose, R.B and TO Barnwell, Jr 1989, "Environmental Software at the US Environmental Protection Agency's Center for Exposure Assessment Modeling," In Environmental Software, Vol 4, No 2
- Anderson, MP and WW Woessner, 1991, Applied Groundwater Modeling Simulation of Flow and Advective Transport, Academic Press, Inc., San Diego, California
- Anderson, PF, 1993, A Manual of Instructional Problems for the USGS MODFLOW Model, EPA/600/R-93/010, US EPA Robert S Kerr Environmental Research Laboratory, Ada, Oklahoma
- Army Corps of Engineers, 1984, Dam Safety Reports, EG&G Rocky Flats, Inc., Golden Colorado, May
- ASI (Advanced Sciences, Inc.), 1990, Water-Yield and Water-Quality Study of Walnut Creek and Woman Creek Watersheds Rocky Flats Plant Site, Task 4 of the Zero-Offsite Water-Discharge Study Prepared for EG&G Rocky Flats, Inc, Golden, Colorado, Rev. 4
- ASI, 1991, Surface-Water and Ground-Water Rights Study in the Vicinity of Rocky Flats Plant Task 14 of the Zero-Offsite Water-Discharge Study, Prepared for EG&G Rocky Flats, Inc., May 21
- ASI 1993 Stormwater NPDES Permit-Application Monitoring Program Rocky Flats Plant Site Final Report Prepared for EG&G Rocky Flats, Inc., BOA Contract BA 72429B Purchase Order No BA 99041CL, ASI Project No 9208 10, March 31, 57 p., 10 figures, 12 tables, and Appendices A through C
- Bales, C W, J H Freeland-Graves, P-H Lin, J M Stone, and V Dougherty, 1987, Plasma Uptake of Manganese Influence of Dietary Factors In Nutritional Bioavailability of Manganese, C Kies Ed, ACS Symposium Series 354, p 112-122
- Battelle, 1984, Chemical Attenuation Rates Coefficients and Constants in Leachate Migration Volume I A Critical Review Battelle Pacific Northwest Laboratories for Electric Power Research Institute (EPRI), EA-3356 Volume I Final Report February
- Beljin M S and P K M van der Heijde 1993 SOLUTE A Program Package for Solute Transport in Groundwater International Groundwater Modeling Center, IGWMC-BAS 15, Version 3 0, June 1993, Colorado School of Mines, Golden, Colorado
- Bicknell B R J C Imhoff, J L Kittle, A S Donigian, and R C Johanson, 1993, Hydrological Simulation Program - Fortran (HSPF) Users Manual for Release 10 Environmental Research Laboratory U S Environmental Protection Agency Athens Georgia, 660 p
- Brookins, DG, 1988 Eh-pH Diagrams for Geochemistry 176 pgs

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OPPICE

and the state of t

Ì

- Brooks, P P and S M Coplan, 1988, "The Role of Verification and Validation in Licensing Repositories for Disposal of High-Level Waste," In. Geoval-87, A Symposium on Verification and Validation of Geosphere Performance Assessment Models, held in Stockholm, Sweden, April 7-9, 1987, Proceedings Vol 1, pp 41-50
- Calderbank, A., 1989, The Occurrence and Significance of Bound Resticide Residues in Soil New York
  Reviews of Environmental Contamination and Toxicology, cei 108, Springer-Verlag, Inc., pp
  71-103
- Cole, C.R., T.J. Nickolson, P. Cavis, and T.J. McCartin, 1988, "Lessons Learned from the Hydrocoin Experience," In Geoval-87, A Symposium on Vertification and Validation of Geosphere Performance Assessment Models, Held in Stockholm Sweden, April 7-9, 1987, Proceedings Vol 1, pp 269-285
- Cooley, R.L., 1977, A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow, 1 Theory and Numerical Properties, Water Resources Research, Vol 13, No 2, p 322
- Cowherd, Jr., C., G.E. Muleski, P.J. Englishart, and D.A. Gillette, 1985, Rapid Assessment of Exposure to Particulate Emissions from Surface Contamination Sites, Washington, D. C., U. S. Environmental Protection Agency, Office of Health and Environmental Assessment.
- Cox, G E, D E, Bailey, and K. Morgazeidge, 1975, "Chronic feeding studies with beryllium suifate in rats," unpublished report submitted by the Food and Drug Research Laboratories, Inc., to the Aluminum Company of America, Pattsburg, PA., (as cited in EPA 1995).
- Crawford, N. H. and R.K. Lindsey, 1966, Digital Simulation in Hydrology Stanford Watershed Model IV Stanford University, Department of Civil Engineering Technical Report No. 39, 210 p.
- Dean, J.A., 1992, Lange's Handbook of Chemistry, 14th ed., New York: McGraw-Hill, Inc.
- Dixon, W.J, and F.J Massey, 1957, Introduction to Statistical Analysis, McGraw-Hill, 128 p
- DOA (Department of Agriculture), 1970, Irrigation Water Requirements, U. S. Department of Agriculture, Soil Conservation Service, Engineering Division, Technical Release No. 21, April 1967, revised September
- DOA, 1980, Soil Survey of Golden Area, Colorado, Soil Conservation Service
- DOE (Department of Energy), 1980, Final Environmental Impact Statement Rocky Flats Plant Site Golden, Jefferson County, Colorado, Vol. 1, 2, and 3, U S. Department of Energy Report, Washington, D C DOE/EIS-0064.
- DOE 1986, Resource Conservation and Recovery Act 3004 (u) Waste Management Units Appendix I Volume I, (for U S DOE Rocky Flats Plant), November, 1986
- DOE 1987, Resource Conservation and Recovery Act Part B Operating Permit Application Vol VI, Revision No 10, December

11-2

- DOE, 1988, External Dose-Rate Conversion Factors for Calculation of Dose to the Public, DOE/EH-0070, Assistant Secretary for Environment, Safety and Health, Washington, D C
- DOE, 1990, General Environmental Protection Program, DOE Order 5400 1, U S Department of Energy, Washington, D C, June 29
- DOE, 1991, Geologic Characterization Report for U S DOE-Rocky Flats Plant, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, July
- DOE, 1992a, Final Phase I RFI/RI Work Plan for Rocky Flats Plant Woman Creek Priority Drainage (Operable Unit No 5), Revision 1, U S Department of Energy, Rocky Flats Plant, Golden, Colorado, February
- DOE, 1992b, Surface Geophysical Surveys, Technical Memorandum 2, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, October
- DOE, 1992c, Baseline Biological Characterization of Terrestrial and Aquatic Habitats at the Rocky Flats

  Plant Final Report, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado,

  September
- DOE, 1993a, Background Geochemical Characterization Report, Rocky Flats Plant, Prepared for the U S Department of Energy, Rocky Flats Plant, Golden, Colorado, September
- DOE, 1993b, Revised Network Design Field Sampling Plan, Technical Memorandum 1, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, May
- DOE, 1993c, Surface Soil Sampling Plan Original Landfill, Technical Memorandum 3, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, January
- DOE, 1993d, Surface Soil Sampling Plan Ash Pits Incinerator and Concrete Wash Pad, Technical Memorandum 4 Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, April
- DOE, 1993e, Revised Soil Gas Sampling Plan Original Landfill, Technical Memorandum 5, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Flats Area Office Golden, Colorado, February
- DOE, 1993f Cone Penetrometer Testing and Groundwater Sampling Plan IHSS 115 Technical Memorandum 6, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy Rocky Flats Area Office, Golden, Colorado, March
- DOE, 1993g, Soil Boring Sampling Plan Ash Pits 1-4 Incinerator and Concrete Wash Pad Technical Memorandum 7, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Flats Area Office Golden Colorado, February

April 1996

side a state of the

- DOE, 1993h, Monitoring Well Installation Plan IHSS 133, Technical Management of Addendum to Fund Phase I RFI/RI Work Plan; U S Department of Energy, Rocky Plans Area Office, Golden, Colorado, June.
- DOE, 1993, Soil Sampling Plan Surface Disturbance Areas, Technical Memorandum 10, Addendum to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Plata Area Office, Golden, Colorado, March
- DOE, 1993j, Phase II RFI/RI Report for Operable Unit 2 (preliminary draft), U S Department of Energy, Rocky Flats Plant, Gelden, Colorado, December
- DOE, 1993k, Draft Ecological Risk Assessment Guidance for Preparation of Remedial Investigation/Feasibility Study Work Plans, DOE/EH-0338T, Washington, D. C.
- DOE, 1993I, Policy Framework and Implementation Plan for Using Ecological Risk Assessment at DOE-Facilities, DOE/RL/01830-H16, Washington, D C
- DOE, 1994a, Amended Field Sampling Plan, Phase I RFIRI Work Plan for Operable Unit 5, Woman Greek Priority Drainage, Technical Memorandum No. 14, Addending to Final Phase I RFI/RI Work Plan, U S Department of Energy, Rocky Plan Area Office, Golden, Colorado, August.
- DOE, 1994b, Model Descriptions for Operable Unit No. 5, Human Health Might Assessment, Technical Memoranitum No 13, Addendian to Final Phase TRFI/RI Work Plant, U.S. Department of Energy, Rocky Flats Area Office, Golden, Colorado, November.
- DOE, 1994e, GU3 Wind Tunnel Study Vol. 1 Tast Report, prepared by Midwist Research Institute under DOE Prime Contract No DE-AC04-90DP62349, Subcontract No ASC218973GG, MRI Project No 3155-M, Golden, Colorado. EG&G Rocky Flats, Inc., January 24
- DOE, 1994d, Colorado Department of Public Health and Environment Source Area Delineation and Risk-Based Conservative Screen and Environmental Protection Agency Areas of Concern Delineation, Letter Report for Human Health Risk Assessment, Woman Creek Priority Drainage, Operable Unit No 5, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, November
- DOE, 1995a, Chemicals of Concern Human Health Risk Assessment, Woman Greek Priority Dramage,
  Operable Unit No 5, Technical Memorandum No 11, Addendum to Final Phase I RFI/RI Work
  Plan, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, March
- DOE, 1995b, Exposure Assessment, Human Health Risk Assessment, Woman Creek Phority Dramage Operable Unit No. 5, Technical Memorandum No. 12, Addendum to Final Phase FRFI/RI Work Plan, U.S. Department of Energy, Rocky Flats Area Office, Golden, Colorado, Agril.
- DOE, 1995c, 1994 Population, Economic, and Land Use Data Base for Rocky Flats Environmental Technology Site, U.S. Department of Energy Rocky Flats Environmental Technology Site Golden, Colorado, Final, Revision 0, March.
- DOE, 1995d, Programmatic Risk Based Preliminary Remediation Goals, Rocky Flats Plant, Golden, Colorado, Final, Rev 2, U S Department of Energy, Rocky Flats Area Office, Golden, Colorado, February

11-4

- DOE, 1995e, Changes to the Site-Wide Exposure factors and Exposure Scenarios, U S Department of Energy, Rocky Flats Area Office, Memorandum from Jessie M Roberson, ER NC 08232, April 13, 1995
- DOE, 1995f, Ecological Risk Assessment Methodology Technical Memorandum No 2 Sitewide Conceptual Model Draft Final, Rocky Flats Environmental Technology Site, Golden, Colorado, February
- DOE 1995g, Ecological Risk Assessment Methodology Technology Memorandum No 3 Ecological Chemicals of Concern (ECOC) Screening Methodology Draft Final, Rocky Flats Environmental Technology Site, Golden, Colorado, April
- DOE, 1995h, Phase I IM/IRA Decision Document for Operable Unit 7 Present Landfill Draft Report, Rocky Flats Environmental Technology Site, Golden, Colorado
- DOE, 19951, Meeting minutes update on OU6 RI/FS issues April 20
- Donigian, Jr AS, JC Imhoff, BR Bicknell and JL Kittle, Jr 1984, Application Guide for Hydrological Simulation Program Fortran (HSPF) Prepared by Anderson-Nichols and Co, Environmental Research Laboratory, Office of Research and Development, US Environmental Protection Agency, Athens, Georgia, EPA-600/3-84-065, 177 p
- Doty and Associates, 1992, Evaluation of the OU-3 Pumping Test Woman Creek Alluvium Rocky Flats
  Plant Prepared for EG&G Rocky Flats Inc January
- Droppo, J G Jr, D L Strenge, J W Buck, B L Hoopes, R D Brockhaus, M B Walter, G Whelen, 1991,

  Multimedia Environmental Pollutant Assessment System Application Guidance Vol 2 -
  Guidelines for Evaluating MEPAS Input Parameters, p 2 36, p 2 37, Battelle Memorial Institute,

  December
- Denver Water Board (DWB), 1994, Faxed communication from Beth Roman, Operations and Maintenance, October 14
- EG&G, 1991a, General Radiochemistry and Routine Analytical Services Protocol (GRRASP), Parts A and B Environmental Restoration Program, Rocky Flats Plant, U S Department of Energy, Golden, Colorado, EG&G Rocky Flats, Inc., Golden Colorado, July
- EG&G 1991b, Rocky Flats Plant Site Environmental Report for 1991, RFP-ENV-91 EG&G Rocky Flats, Inc Golden Colorado, Prepared for the U S Department of Energy under control contract No DE-AC04-90DP62349
- EG&G, 1992a, Environmental Management Department (EMD) Operating Procedures, Manual No 5-21000-OPS-FO, Vol I Field Operations EG&G Rocky Flats Inc, Golden, Colorado March 1
- EG&G 1992b Environmental Management Department (EMD) Operating Procedures, Manual No 5-21000-OPS-GW Vol II Groundwater EG&G Rocky Flats Inc., Golden, Colorado, March 1

April 1996 11-5

- EG&G, 1992c, Environmental Management Department (EMD) Operating Procedures, Manual No 5-21000-OPS-GT, Vol III Geotechnical. EG&G Rocky Flats, Inc., Golden, Colorado, March 1
- EG&G, 1992d, Environmental Management Department (EMD) Operating Procedures, Manual No 5-21000-OPS-SW, Vol. IV Surface Water, EG&G Rocky Flats, Inc., Golden, Colorado, March 1
- EG&G, 1992e, Rocky Flats Plant Environmental Report For 1992, Prepared for the U. S. Department of Energy, EG&G Rocky Flats Plant.
- EG&G, 1992f, Phase II Geologic Characterization Data Acquisition Surface Geologic Mapping of the Racky Flats Plant and Vicinity Jefferson and Boulder Counties, Calorado, EG&G Rocky Flats, Inc., Golden, Colorado, March.
- EG&G, 1992g, Survey of Preble's Meadow Jumping Mouse, Rocky Flats Buffer Zone Jefferson County, Colorado, Report of Findings, EG&G Rocky Flats, Inc., Golden, Colorado, September
- EG&G, 1992h, Lie Ladies'-Tresses Surveys, Rocky Flats Buffer Zone, Jefferson County, Colorado, Report of Findings, EG&G Rocky Flats, Inc., Golden, Colorado, September.
- EG&G, 1992i, Historical Release Report for the Rocky Flats Plant, Vol. I Text, Manual No. 21100-TR-12501.01, EG&G Rocky Flats, Inc., Golden, Colorado, June.
- EG&G, 1993a, Monthly Environmental Monitoring Report, ER-4180110-219, EG&G Rocky Flats, Inc., Golden, Colorado
- EG&G, 1993b, Status Report Sitewide Groundwater Flow Modeling at the Rocky Flats Plant, Golden, Colorado, EG&G Rocky Flats Environmental Management, Golden, Colorado.
- EG&G, 1993c, Rocky Flats Plant Site Environmental Report for 1993, EG&G Rocky Flats, Rocky Flats Plant, Golden, Colorado, Prepared for the U.S. Department of Energy under control contract No DE-AC34-9ORF62349
- EG&G, 1993d, Personal communication from A. Berzins, ER/SWD, August 20.
- EG&G, 1994a, Guidance Document, Statistical Comparisons of Site-Background Data in Support of RFI/RI Investigations, EG&G Rocky Flats, Inc., Golden, Colorado, January
- EG&G, 1994b, Monthly Environmental Monitoring Reports, January-December ER-4180110-222, EG&G Rocky Flats, Inc., Golden, Colorado
- EG&G, 1994c, Written Communication from Ed C Mast to Frazer Lockhart, RFFO-DOE, Operable Unit 5, Woman Creek Priority Drainage. Toxicity Technical Memorandum #14-ECM-065-94, November 14
- EG&G, 1994d, Event-Related Surface-Water Monitoring Report, RFETS. WY 1993, Appendix I,
  Discharge Data Tables, prepared by EG&G-EP, Surface-Water Division, Rocky Flats, Golden,
  Colorado, September

- EG&G, 1994e, Event-Related Surface-Water Monitoring Report, RFETS WY 1993, Appendix VI, Surface-Water Monitoring Network, prepared by EG&G-EP, Surface-Water Division, Rocky Flats, Golden, Colorado, September
- EG&G, 1994f, Operable Unit 1 HHRA Modeling, EG&G Rocky Flats Environmental Management, Golden, Colorado
- EG&G, 1995a, Geologic Characterization Report for the Rocky Flats Environmental Technology Site, Vol I of the Sitewide Geoscience Characterization Study, EG&G Rocky Flats, Inc., Golden, Colorado, March
- EG&G 1995b, Hydrogeologic Characterization Report for the Rocky Flats Environmental Technology Site, Vol II of the Sitewide Geoscience Characterization Study, EG&G Rocky Flats, Inc, Golden, Colorado, April
- EG&G, 1995c, Groundwater Geochemistry Report for the Rocky Flats Environmental Technology Site, Vol III of the Sitewide Geoscience Characterization Study, EG&G Rocky Flats, Inc., Golden, Colorado, January
- EG&G, 1995d, Evaluation of the Capability of Inferred Faults in the Vicinity of Building 371 Rocky Flats

  Environmental Technology Site Colorado, Prepared by Geomatrix Consultants, Inc, for EG&G

  Rocky Flats, Inc, Draft Report, January
- EG&G 1995e, Preliminary Rocky Flats Environmental Technology Site (RFETS) OU-5 Geotechnical Investigation, Draft, EG&G Rocky Flats, Inc., Golden, Colorado, June
- EG&G 1995f, Rocky Flats Environmental Technology Site Ecological Monitoring Program 1995 Annual Report, Rocky Flats Environmental Technology Site, EG&G Rocky Flats, Inc., Golden, Colorado
- EG&G, 1995g, Verbal communication from Dr M A Siders geochemist for EG&G-ERPD March 20
- EG&G 1995h, Minutes of meeting held February 16 1995 to discuss the treatment of arsenic in OU5 RFI/RI EG&G Rocky Flats Inc, Golden Colorado
- EG&G 19951, Draft Aquifer Testing Program, Rocky Flats Environmental Technology Site, EG&G Rocky Flats, Inc., Golden, Colorado
- EPA (U S Environmental Protection Agency), 1985 Compilation of Air Pollutant Emission Factors Vol I Stationary Point and Area Sources, 4th ed (AP-42), U S Environmental Protection Agency, Research Triangle Park, North Carolina Office of Air Quality Planning and Standards
- EPA 1986 Guidelines on Air Quality Models (Revised) (EPA-450/2-78-027R), U S Environmental Protection Agency, Research Triangle Park NC Office of Air Quality Planning and Standards
- EPA 1988a, Research and Development Aerial Photographic Analysis Comparison Report Rocky Flats Golden Colorado, TS-PIC-99760 Appendix A U S Environmental Protection Agency EPA Region 8 July

April 1996

Š

- EPA, 19886, Superfund Exposure Assessment Manual (EPA-450/1-1996)), Environmental Protection Agency, Office of Emergincy and Romedial Response, Washington, DC
- EPA, 1988c, Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (OSWER Directive 9355.3-01) Interim Final, Environmental Protection Agency, Office of Emergency and Remedial Response, Office of Solid Waste and Emergency Response, Washington DC, October
- EPA, 1988d, Limiting Values of Radianuclide Intake and Air Concentration and Dose Conversion Factors for Inhalation, Submersion, and Ingestion, Publication EPA-520/1-88-020, Office of Radiation Programs, Washington, D. C
- EPA, 1989, Risk Assessment Guidance for Superfund, Vol. 1. Human Health Evaluation Manual (Part A)
  Interim Final, EPA/540/1-89/002, U. S. Environmental Protection Agency, Office of Emergency
  and Remedial Response, Washington, D. C
- EPA, 1991, Preliminary Risk Assessment for the California Gulch NPL-Site, Leadville, Colorado, Doc Control No. 4800-01-0722, December
- EPA, 1992a, Assessing Potential Indoor Air Impacts for Superfund Sites (EPA-451/R-92-062), U & Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina.
- EPA, 1992b, Guidance on Risk Characterization for Risk Managers and Risk Assessors. U. S. Environmental Protection Agency, Office of the Administrator, Memorandum, F. H. Habicht, II.
- EPA, 1992c, Supplemental Guidance to RAGS; Calculating the Concentration Term, U S
  Environmental Protection Agency, Office of Solid Waste and Emergency Response, Publication 9285-7-091, Washington, D C., March.
- EPA, 1992d, Framework for Ecological Risk Assessment: Risk Assessment Forum, Washington D C EPA/630/R-92/001, February
- EPA, 1992e, Guidelines for Exposure Assessment Office of Health and Environmental Assessment, Federal Register, Vol. 57, No. 104 22888-22938
- EPA, 1992f, Dermal Exposure Assessment Principles and Applications, EPA/600/8-91/011B, January
- EPA, 1993a, External Exposure to Radionuclides in Air, Water, and Soil, Publication EPA-402-R-93-081, Office of Radiation Programs, Washington, D C
- EPA 1993b Wildlife Exposure Factors Handbook, Vol. I and H EPA/600/R-93/187a, Office of Research and Development, Washington, D. C., December
- EPA, 1994a, Calculating the Concentration Term for Risk Assessment. Use of One "C" Term to Estimate a Lower Average and an Upper RME Risk Range, U.S. Environmental Protection Agency, Region 8 Superfund Technical Guidance, No. RA-02, September

- EPA, 1994b, Health Effects Assessment Summary Tables, Publication 9200 6-e0e(94-1), Annual Update, FY 1994 and Supplement No 2, EPA540/R-94/0202, U S Environmental Protection Agency, Office of Research and Development, Washington, DC, March
- EPA, 1994c, Integrated Risk Information System (IRIS), On-line database, U S Environmental Protection Agency
- EPA, 1994d, Evaluating and Identifying Contaminants of Concern for Human Health, U S
  Environmental Protection Agency, Region 8 Superfund Technical Guidance, No RA-03,
  September
- EPA, 1994e, Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities, OSWER Directive # 9355 4-12, U S Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC, July
- EPA, 1994f, Ecological Risk Assessment Guidance for Superfund Process for Designing and Conducting Ecological Risk Assessments Review Draft, Environmental Response Team, Edison, New Jersey, September
- EPA, 1994g, Guidance Manual for the Integrated Exposure Uptake Biokinetic Model for Lead in Children EPA/540/R-93/81, February
- EPA, 1994h, Development of Toxicity Values for PAHs to Use in Human Risk Assessments EPA Region 8 Superfund Technical Guidance No RA-04, September
- EPA, 1995, Integrated Risk Information System (IRIS) on-line database
- Ermak, D L, 1977 An Analytical Model for Air Pollutant Transport and Deposition from a Point Source, Atmospheric Environment 11 231-237
- Fedors R and J W Warner 1993a, Characterization of Physical and Hydrologic Properties of Surficial Materials and Groundwater/Surface Water Interaction Study at Rocky Flats Plant Golden Colorado, Groundwater Technical Report #21, Colorado State University, Fort Collins, Colorado, July
- Fedors R, JW Warner, B Roberts and AD Berzins, 1993b, Numerical Modeling of Variably Saturated Flow and Transport 881 Hillside Rocky Flats Plant Jefferson County Colorado, Groundwater Technical Report #20, Colorado State University, Fort Collins, Colorado, June
- Fetter, C W 1980 Applied Hydrogeology, pp 61, pp 67, Merrill Publishing Company
- Fetter, C W 1993 Contaminant Hydrogeology
- Freeman, GB, JD Johnson, JM Killinger SC Liao PI Feder, AO Davis MV Ruby, RL Chaney, SC Lovre, and PD Bergstrom 1992 Relative Bioavailability of Lead from Mining Waste Soil in Rats Fundam Appl Toxicol, 19 388-398

- Freeman, G.B., J.D. Johnson, J.M. Killinger, S.C. Liao, A.O. Davis, M.V. Raby, R.L. Chaney, S.C. Lovre, and P.D. Bergstrom, 1993, Bioantility of Arsenting Soil Impacted by Smelter Activities
  Following Oral Administration in Rabbits, Fundam Appl. Fundam, 21, 83-88.
- Freeze, R.A and J.A. Cherry, 1979, Groundwater, p 29, pp.33-34, Prentice-Hall, Inc.
- Gilbert, R.O., 1993, Letter report recommending process for comparing RFETS are analytical results to background concentrations, Richard Gilbert, Battelle Paolite Management Services, Inc., July 30.
- Gilbert, T.L., C. Yu, Y.C. Yuan, A.J. Zielen, M.J. Jusko, and A. Walle, 1989, A Manual for Implementing Residual Radioactive Material Guidelines, Argania, Mational Laboratory, June.
- Gile, L.H., F.F Peterson, and R.B Grossman, 1966, "Morphological and Genetic Sequences of Carbonate Accumulations in Desert Soils," In. Soil Science, v 101, p. 347-360.
- Goon, D, NS Hatoum, M.J. Klan, J.D. Jernigan, and R.G. Farmer, 1991, Oral Biographity of "Aged"

  Soil-Adsorbed Benzo(a) pyrene (BaP) in Rais, Society of Toxicology Annual Meeting Abstracts

  #1356
- Heard, M J and A C Chamberlain, 1982, Effect of Minerals and Food on the Uptake of Lead from the Gastrointestinal Tract in Humans, Human Toxicol 1: 411-415
- Hem, John D., 1985, Study and Interpretation of the Chemical Characteristics of Natural Water, 3rd Ed., U S Geological Survey, Alexandria, Virginia.
- Holzworth, G.C., 1972, Mixing Heights, Wind Speeds and Potential for Urban Air Pollution Throughout the Contiguous United States (AP-101), EPA, Office of Air Programs, Research Triangle Park, North-Carolina.
- Hurr, R.T., 1976, Hydrology of a Nuclear Processing Plant Site, Rocky Fints, Jefferson County, Colorado, U.S. Geological Survey Open-File Report 76-268.
- IAEA (International Atomic Energy Agency), 1992, Effects of Ionizing Radiation on Plants and Animals at Levels Implied by Current Radiation Protection Standards, Technical Reports Series 332, IAEA, Vienna.
- IAG (Interagency Agreement), 1991, Federal Facility Agreement and Consent Order (IAG) for Rocky Flats Plant, Colorado Department of Health (CDH), Department of Energy (DOE), Environmental Protection Agency (EPA), January
- ICF Kaiser 1993 Water Balance and Chemical Balance of Operable Unit 2, Draft Report, prepared for EG&G Rocky Flats, Inc., Golden, Colorado, April.
- Jacobs Engineering Group (Jacobs), 1994, Draft Technical Memorandum Number 1, Data Compilation, Operable Unit 8, Prepared for EG&G Rocky Flats, Ing., April (Draft)
- Javandel I, C Doughty, and C Tsang. 1984, Groundwater Transport: Handbook of Mathematical Models, Water Resources Monograph 10, American Geophysical Union

11-10

- Johnson, P.C., C.C. Stanley, M.W. Kemblowski, D.L. Byers, and J.D. Colthart, 1990, A Practical
  Approach to the Design Operation and Monitoring of In Situ Soil-Venting Systems, Groundwater
  Monitoring Report, Spring
- Johnson, P C and R A Ettinger, 1991, "Heuristic Model for Predicting the Intrusion Rate of Contaminant Vapors into Buildings," In Environmental Science and Technology, 25 (8) 1,445-1,452
- Kiusalaas, N and Kunkel J R., 1993, Fortran Code PETO, Version 2 0, for Calculating Potential Evapotranspiration Using the Penman FAO-24 Equation Prepared by Advanced Sciences, Inc., November
- Koffer JP, 1989, Investigation of the Surface and Groundwater Flow Mechanics of the Evaporation Spray Field at the Rocky Flats Nuclear Weapons Plant Jefferson County Colorado Master of Engineering Thesis, Colorado School of Mines, ER-3728
- Ludwig, J A, and J F Reynolds, 1988, Statistical Ecology A Primer on Methods and Computing, New York John Wiley and Sons, 337 pp
- Lumb, A M, J L Kittle Jr, and K M Flynn, 1989, Users Manual for ANNIE, A Computer Program for Interactive Hydrologic Analyses and Data Management U S Geological Survey Water-Resources Investigation Report 89-4080 236 p (including Appendices A and B)
- Luthin JN 1966, Drainage Engineering, John Wiley & Sons
- Marr, J W, 1964, "The Vegetation of the Boulder Area," University of Colorado Museum, Leaflet 13, pp 34-42, Boulder, Colorado
- McClane, A J, 1978, Freshwater Fishes of North America, Holt, Rinehart, and Winston New York
- McConnell, E E, G W Lucier R C Rumbaugh, P W Albro, D J Harvan, Jr, R Hass, and M W Harris, 1984, Dioxin in Soil Bioavailability after Ingestion by Rats and Guinea Pigs Science, 223 1077-1079
- McDonald, M G and A W Harbaugh, 1988, A Modular Three-Dimensional Finite-Difference Ground-Water Flow Model U S Geological Survey Techniques of Water-Resources Investigations, Chapter A1, Book 6
- Merrick Engineering, 1992, Final Summary Report Detention Pond Capacity Study Rocky Flats Plant September 30 1992
- Midwest Research Institute, 1988, Background Document for AP-42 Section 11 2 7 on Industrial Wind Erosion (Final Report EPA Contract No 68-02-4395, Assignment No 5, MRI Project No 8985 K[05]) Midwest Research Institute, Kansas City, Missouri
- Montgomery, J H and L M Welkom 1989 Groundwater Chemicals Desk Reference Lewis Publishers Inc
- Mood A M and F A Graybill 1963, Introduction to the Theory of Statistics p 156 McGraw-Hill

3

National Research Council, 1983, A Study of the Isolation System for Geologic Disposal of Radioactive Waste

ć1

- NCRP (National Council on Radiation Protection and Measurements), 1985, General Concepts for the Dosimetry of Internally Deposited Radionuclides, Report No. 84
- NCRP, 1987, Recommendations On Limits for Exposure to Ionizing Radiation, Report No 91, Bethesda, Maryland
- Nelson, C., 1995, Personal Communication via Bill Richards Woodward-Chyde Consultants, EPA
- Ney, R.E., 1990, Where Did That Chemical Go? A Practical Guide to Chemical Este and Transport in the Environment, New York: Van Norstrand Rembold.
- Nicks, A.D., 1985, "Generation of Climate Data," Proceedings of the Natural Resources Modeling Symposium, USDA-ASA ARS-30, pp 297-300.
- Nihiser, I., 1993, Personal communication between J. Nihiser, Jefferson County (Colorado) Building Department, and G. Mathews, Advanced Sciences, Inc., subject: Typical commercial and residential buildings in Jefferson County, September 20.
- Norton, S.B., et al., 1992, A Framework for Ecological Risk Assessment at the EPA, Environmental Toxicology and Chemistry, 11 1663-1672
- Opresko, D.M. et al., 1994, Toxicological Benchmarks for Wildlife: 1994 Revision, Oak Radge National Laboratory, ES/ER/TM-86/R.i., September
- ORNL (Oak Ridge National Laboratory), 1994, Toxicological Benchmarks for Screening Contaminants of Potential Concern, 1994 Revision.
- Owen, JB and L.M Steward, 1973, Environmental Inventory A Historical Summation of Environmental Incidents Affecting Soils at or near the USAEC Rocky Flats Plant, Dow Chemical Company, Rocky Flats Division, draft report.
- Papadopulos & Assoc., 1992, MT3D, A Modular Three-Dimensional Transport Model, Versión 15

  Documentation and User's Guide Second Revision S.S. Papadopulos and Associates, Inc.,

  March 15
- Papadopulos & Assoc., 1993, MODFLOW/mt USGS Modular Flow Model with MT3D Interface Users Manual, S S Papadopulos and Associates, Inc., January
- Patton, I., 1995, Verbal Communication, Surface Water Hydrology ist with Rocky Mountain Remediation Services, September 27
- Pollock, DW, 1989, Documentation of Computer Programs to Compute and Display Pathlines Using Results from the US Geological Survey Modular Three-Dimensional Finite-Difference Ground-Water Flow Model US Geological Survey Open File Report 39-381

- Price, A B and A E Amen, 1980, Soil Survey of Golden Colorado Parts of Denver Douglas Jefferson and Park Counties, U S Department of Agriculture, Soil Conservation Service
- Quackenbush, T H and J T Phelan, 1965, "Irrigation Water Requirements of Lawns," Journal of the Irrigation and Drainage Division, ASCE, IR 2, June, pp. 11-19
- Rasmussen, J B et al, 1990, "Food Chain Structure in Ontario Lakes Determines PCB Levels in Lake Trout (Salvelinus namaycush) and Other Pelagic Fish," In Canadian Journal of Fisheries and Aquatic Sciences, 47 2030-2038
- RFETS, 1995, Rocky Flats Future Site Use Working Group Recommendations for Rocky Flats Environmental Technology Site, July
- Robson, SG, JC Romero and S Zawistowski, 1981a, "Geologic Structure, Hydrology, and Water Quality of the Arapahoe Aquifer in the Denver Basin, Colorado," In U S Geological Survey Atlas HA-647
- Robson, S.G. A. Wacınski, S. Zawistowski, and J.C. Romero, 1981b. "Geologic Structure Hydrology and Water Quality of the Laramie-Fox Hills Aquifer in the Denver Basin, Colorado," In. U. S. Geological Survey Hydrologic Atlas HA-650
- Rockwell International, 1987, Draft Remedial Investigation Report for 903 Pad Mound and East Trenches Areas, U S Department of Energy, Rocky Flats Plant, Golden, Colorado
- Rockwell International, 1988, Draft Remedial Investigation and Feasibility Study Plans for Low Priority Sites, Rocky Flats Plant, Jefferson County, Colorado, Vol 1, June
- Schroeder, H A and M Mitchner, 1975, Life-term studies in rats Effects of aluminum barium beryllium and tungsten J Nutr 105 421-427, (as cited in EPA, 1995)
- Schroeder, HA M Mitchner, and AP Nasor, 1970, Zirconium niobium antimony vanadium and lead in rats Life term studies J Nutr 100 59-66, (as cited in EPA, 1995)
- Schulz, E.F., 1976, *Problems in Applied Hydrology* Water Resources Publications, Fort Collins, Colorado
- Scott G R 1960 "Subdivision of the Quaternary Alluvium East of the Front Range near Denver Colorado" In Geological Society of America Bulletin V 71 No 10, pp 1541-1543
- Scott, GR, 1963, Quaternary Geology and Geomorphic History of the Kassler Quadrangle Colorado, USGS Professional Paper 421, pp 1-70
- Seinfeld JH, 1986, Atmospheric Chemistry and Physics of Air Pollution John Wiley and Sons, Inc. New York
- Shroba, R R and P E Carrara, 1994, Preliminary Surficial Geologic Map of the Rocky Flats Plant and Vicinity Jefferson and Boulder Counties Colorado U S Geological Survey Open-File Report 94-162

in the second of the second

•

Shu, H.D., Paustenbach, F.J. Murray, E. Marpie, B. Brunck, D. Dei Rass, and P. Testelbaum, 1988,

Bioavailability of Seil-Bound TCDD Oral Bioavailability in the Rat, Fundam. Appl. Toxicol,
10 648-654

Jar 1

- Smith, D.M., 1989, An Investigation of Uncertainties Associated with Groundwater Modeling, for Exposure Assessment and Carcinogenic Risk Assessment at a Hazardous Waste Site, University of Pittsburgh, Graduate School of Public Health, December
- Sokal, R.R. and F.J Rohlf, 1968, Biometry The Principals and Practice of Statistics in Biological Research," W H Freeman and Company, 776 p. San Francisco, California.
- Strenge, D L and S R. Peterson, 1989, Chemical Data Bases for the Multimedia Environmental Pollutant
  Assessment System (MEPAS). Version 1, PNL-7145, Prepared for U S Department of Energy,
  Battelle Pacific Northwest Laboratory, December.
- Sunagawa, S., 1981, Experimental studies on antimony poisoning, Iguku kenkyu, \$1° 129-142, (as cited in ATSDR, 1991).
- Sunderland, W.F., Jr., S.M. Hapfer, K.R. Sweeney, A.H. Marcas, B.M. Most, and J. Gresson, 1989, Nickel Absorption and Kinetics in Human Volunteers, Soc. Exp. Biol. Med. 191: 5-11
- Suter, G. W. II, 1989, "Ecological Endpoints," In: Ecological Assessment of Hazardous Waste Sites. A Field and Laboratory Reference Document, W. Wasten-Hicks, B.R. Parkhurst, and S.S. Baker, Ir (eds.), EPA 600/3-89/013, Corvailis Environmental Research Laboratory, Oregon
- Suter, G W II, ed., 1993, Ecological Righ Assessment, Lewis Publishers, Boca Raton, Florida.
- Trescott, P.C., G.F. Pinder, and S.P. Larson, 1976, Finite Difference Model for Aquifer Simulation in Two Dimensions with Results of Numerical Experiments; p:30, U.S. Geological Survey; Techniques of Water-Resources Investigations, Book 7, Chapter C1
- Turner, DB, 1970, Workbook of Atmospheric Dispersion Estimates, Department of Health, Education, and Welfare, Cincinnati, Ohio
- Turner, JE, 1986, Atoms Radiation, and Radiation Protection, Page 64, Pergamon Press, New York
- USGS, 1971, Eldorado Springs, Colorado and Ralston Buttes, Colorado. 7 5-minute series, topographic maps at 1 25,000 scale, 40 feet contour interval, U.S. Geological Survey
- USGS, 1979, Louisville, Colorado 7.5- minute series, topographic map at 1 25,000 scale, 10 feet contour interval, U S Geological Survey
- USGS, 1980, Golden, Colorado 7.5-minute series, topographic maps at 1 25,000 scale, 10 feet contour interval, U S Geological Survey
- Van Horn, R., 1957, Bedrock Geology of the Golden Quadrangle Colorado, U S Geological Survey Geologic Quadrangle Map-GQ-103

- Walton, W C, 1985, Practical Aspects of Groundwater Modeling, 2nd Edition, National Water Well Association, p 37
- Winges, K D, 1991, User's Guide for the Fugitive Dust Model (FDM) (Revised) (EPA-910/9-88-202R), EPA Region X, Seattle, WA
- Winges, K D, 1994, Personal communications between K Winges, McCulley, Frick, and Gilman, Inc, and G Mathews, Advanced Sciences, Inc, 5 each, subject Fugitive Dust Model, July 7 through August 4
- Woodruff, N P and F H Siddoway, 1965, "A wind erosion equation, 'In Soil Science of America Proceeding, Vol 29 No 5 pp 602-608

This page intentionally left blank.